

MODEL TENDER DOCUMENT FOR IMPLEMENTATION OF 500 MW GRID CONNECTED ROOF TOP SOLAR PV SYSTEM SCHEME FOR RESIDENTIAL / INSTITUTIONAL / SOCIAL BUILDINGS

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Model Tender for Implementation of 500 MW Grid Connected Roof Top SPV

The model tender document for inviting the bidders to participate in the request for selection for implementation of 500 MW grid connected roof top solar PV scheme under CAPEX and RESCO model has been finalized by MNRE in April 2016 which includes design, manufacture, supply, erection, testing and commissioning, operation and maintenance of project.

Document Description : This tender of 500 MW comprises CAPEX model (300 MWp) and RESCO model (200 MWp). The bidding process under this roof top scheme has been categorized in 3 parts. The minimum and maximum aggregate capacity in each part has been specified as under

- 1. Part A** – This part is meant for For CAPEX model only having total capacity of 200 MWp. The minimum and maximum aggregate capacity in this part is 500 kWp and 20 MW respectively.
- 2. Part B** – This part is meant for RESCO model only having total capacity of 200 MWp. The minimum and maximum aggregate capacity in this part is 2 MWp and 40 MWp respectively.
- 3. Part C** – This part is meant for CAPEX model only for residential and small capacities having total capacity of 100 MWp. The minimum and maximum aggregate capacity is 100 kWp and 4 MWp respectively.

BROAD SCOPE

The scope covers Design, Engineering, Manufacture, Supply, Storage, Civil works, Erection, Testing and commissioning of grid connected roof top solar PV project including operation and maintenance of project for a period of 5 years for Part - A Part- C and for 25 years for Part –B after commissioning of project. The total time line for the above scope of work upto commissioning of project is 12 months only.

SUBSIDY STRUCTURE

Part – A The bidders will be required to quote the project cost for each State (not less than 500 kWp in a State). The lowest bidder will be provided subsidy @ 30% / 70 % of the project cost or Rs. 22.50 / 52.50 / per Wp which ever is lower for general and special category States respectively

Part – B The bidders will be required to furnish year on tear tariff for 25 years starting from the date of commissioning. Tariff stream quoted by the bidder shall then be levelised with a discounting rate of 11%. The maximum allowable levelised tariff for this part over 25 years assuming discounting rate of 11% will be Rs 6.00 /kWh with 30% CFA for General category States and Rs 5.37/kWh with 70% CFA for special category States. This rate has been calculated as per CERC norms. The lowest bidder will be provided fixed subsidy @ 30% / 70% of benchmark cost i.e. Rs 22.50/52.50 per Wp for general and special category States respectively.

Part – C The bidders will be required to quote the project cost for each State (not less than 100 kWp in a State). The lowest bidder will be provided subsidy @ 30% / 70 % of the project cost or Rs 22.50/52.50/ per Wp which ever is lower for general and special category States respectively.

Size of the project shall be in the range from above 25 kWp to 500 kWp under Part – A and Part – B and upto 25 kWp under Part – C.

The bid bond amount has been specified as Rs 15 Lacs per MWp however the maximum aggregate bid capacity for all the States for which the bidder can submit his bid is 64 MWp only for part A,B and C together.

SUBSIDY DISBURSEMENT

1. For general category States the 20% subsidy shall be disbursed after successful commissioning and balance 10% subsidy after completion of first year of successful O&M after receipt of NOC from concerned Discom by SECI.
2. For special category States the 46% subsidy shall be disbursed after successful commissioning and balance 24% subsidy after completion of first year of successful O&M after receipt of NOC from concerned Discom by SECI.

The State wise allocation has also been made in CAPEX as well as in RESCO model. Although it is indicative and can be transferred from 1 state to another state. Max allowable project cost under CAPEX model has been fixed as Rs 75/ kWp.

This is a Model RFS Document / Guidelines for DISCOMs with a focus on household sector to facilitate the concerned utilities for floating the tenders. The document contains Bid details, Instruction to the bidders, Tender bidding methodology along with broad outline of activities from bidder's perspective. Performance security/Performance bank guarantee, Conditions of contracts, Evaluation criteria, Eligibility criteria (general, technical as well as financial) Subsidy disbursement, Technical specifications, Reference for calculation of levelised tariff, Guidelines for operation and maintenance, Quality certification and List of IEC standards, List of banks, Completion documents, Documents required for project sanction etc.

In the model tender documents, different types of formats required for the implementation of the scheme has also been specified for reference like Bid formats for price bids, formats for general particular of bidders, formats for bid bonds, performance bank guarantee, check list for bank guarantee, power of attorney, financial eligibility criteria requirement, consortium agreement, formats for submitting RFS documents required for project sanction, O&M report format, formats for certificates of relationship of parent company with bidding company, undertaking from parent company, formats for project report, undertaking from bidding company etc.